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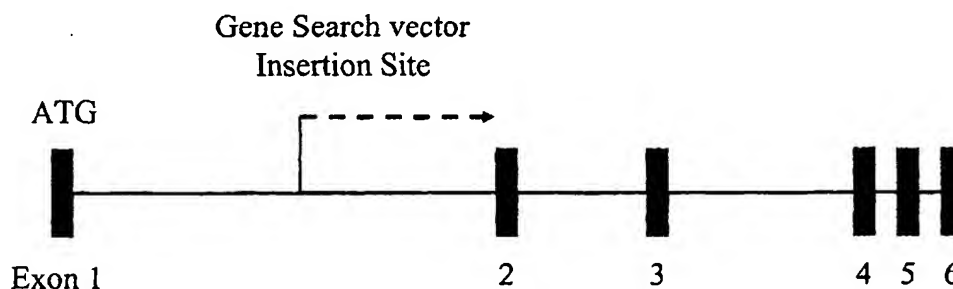
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(54) Title: MAMMALIAN GENES INVOLVED IN RAPAMYCIN RESISTANCE AND TUMORGENESIS: RAPR6 GENES

RapR6



(57) Abstract: The invention provides nucleotide sequence of a novel mammalian gene, the RapR6 gene, which is involved in resistance and tumorigenesis, and amino acid sequences of the encoded proteins. The present invention also provides methods and compositions for regulating rapamycin resistance and/or tumorigenesis by modulating the expression and/or the activity of RapR6 gene. The invention also provides methods and compositions for treatment of diseases, e.g., cancers, by modulating the expression and/or activity of RapR6 gene. The invention also provides methods and compositions for diagnosing and screening RapR6 mediated rapamycin resistance and/or tumorigenesis in patients. The invention further provides host cells a portion of whose RapR6 gene can be reversibly expressed, and to methods of using the RapR6 gene in evaluation and screening for drugs which regulate rapamycin resistance and/or tumorigenesis.

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